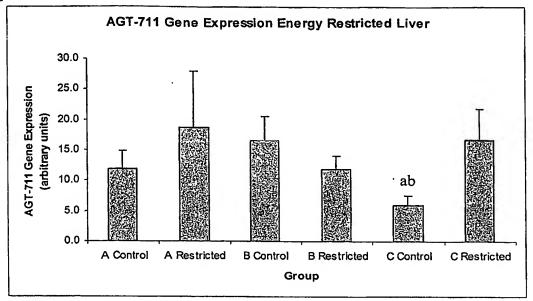
Figure 1:



a: p=0.024 compared to group B control.b: p=0.008 compared to group C restricted.

Figure 2:

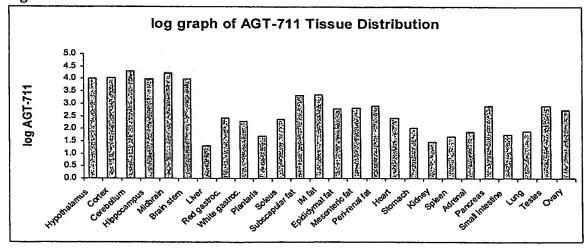
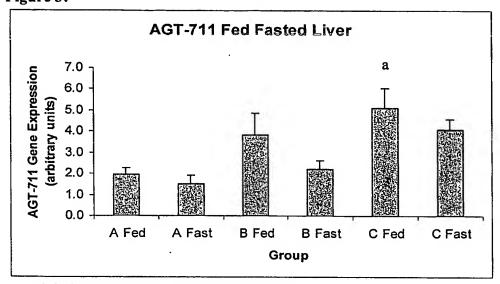


Figure 3:



a: p=0.019 compared to group A fed animals.

Figure 4:

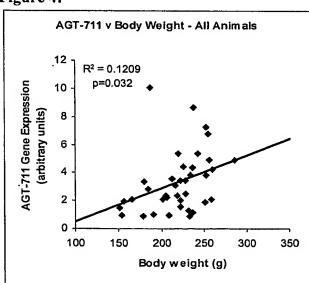


Figure 5:

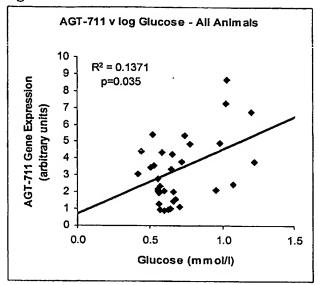


Figure 6:

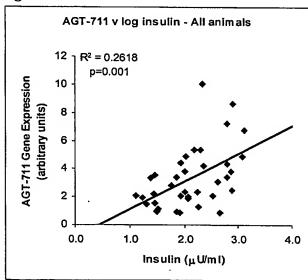
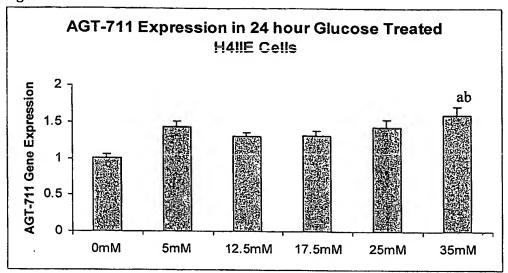


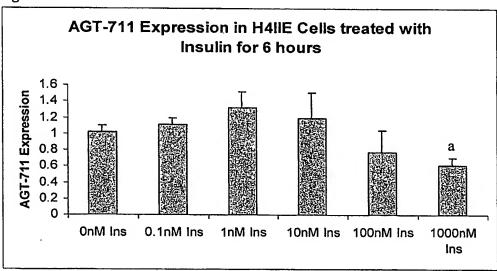
Figure 7:



a: p=0.013 compared to 17.5mM glucose.

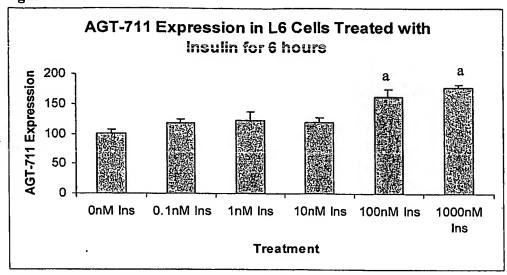
b: p=0.020 compared to 25mM glucose.

Figure 8:



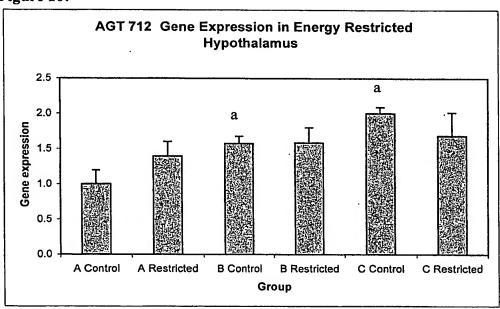
a: p=0.044 compared to 0.1nM insulin group.

Figure 9:



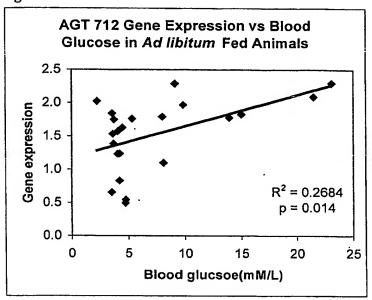
a: p<0.004 compared to 0nM, 0,1nM, 1nM and 10nM insulin groups.

Figure 10:



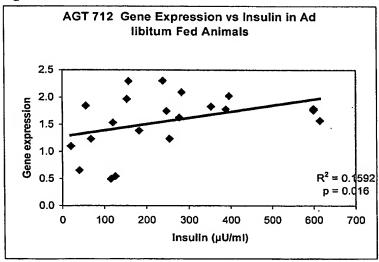
a Gene expression significantly higher in B controls(p=0.039), C controls(p=0.001) when compared to A controls

Figure 11:



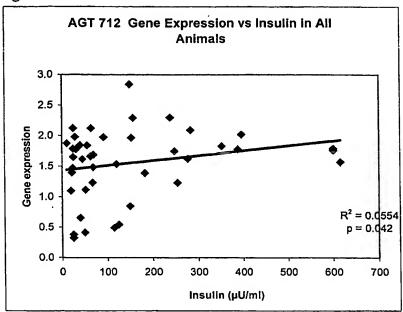
AGT 712 gene expression is positively correlated with post restriction glucose in control animals (p=0.014)

Figure 12:



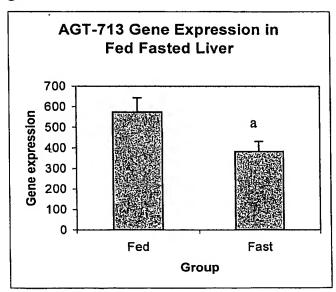
AGT 712 gene expression is positively correlated with post restriction insulin in control animals (p=0.016)

Figure 13:



AGT 712 is Positively correlated with post restriction insulin in all animals (p=0.042)

Figure 14:



a: p=0.039

Figure 15:

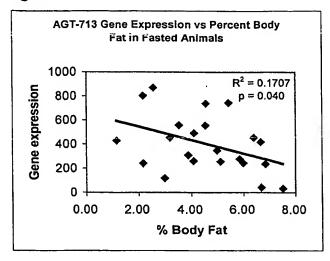
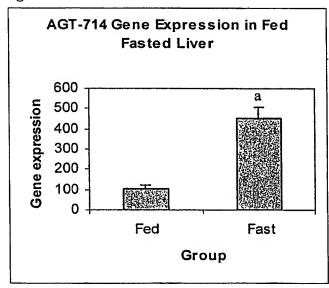
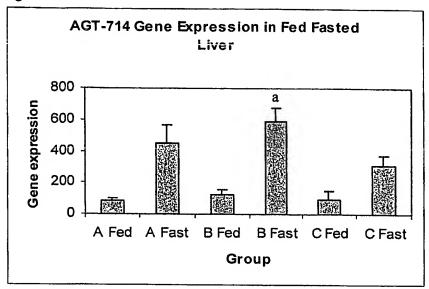


Figure 16:



a: p<0.0001

Figure 17:



a: p=0.005

Figure 18:

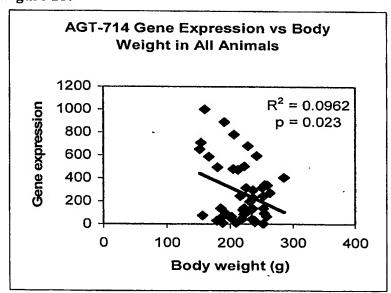


Figure 19:

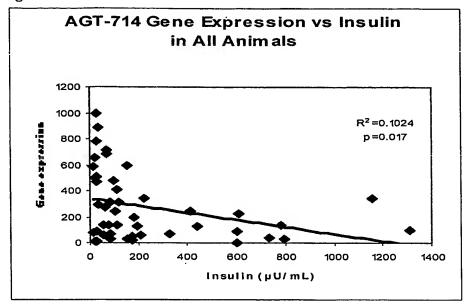


Figure 20:

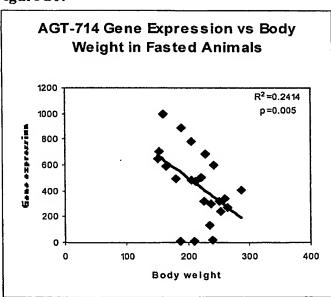


Figure 21:

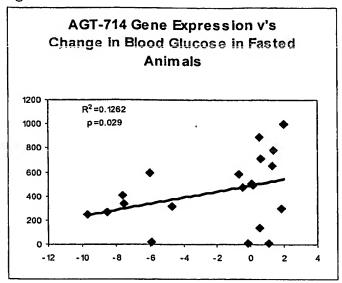


Figure 22:

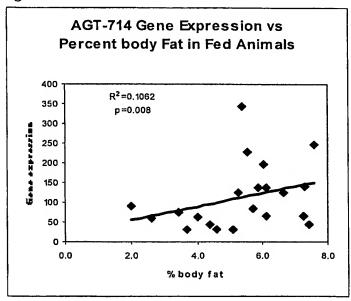
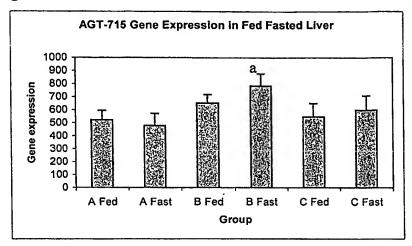


Figure 23:



a:p=0.022, B fasted significantly higher gene expression compared to A fasted

Figure 24:

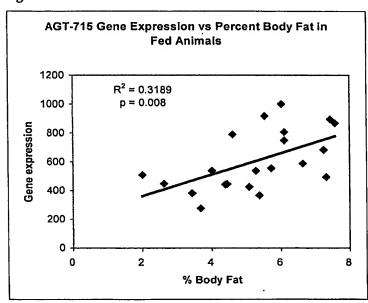
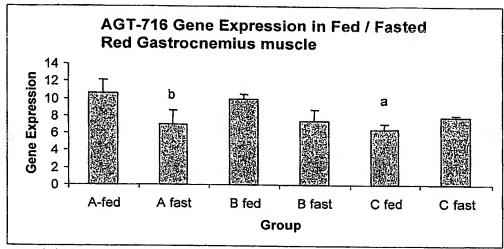


Figure 25:



a: p=0.009, Gene expression significantly lower in Group C animals compared to Group A and B animals.

b: p=0.02, Gene expression significantly lower in Group A fasted animals compared to Group A fed animals.

Figure 26:

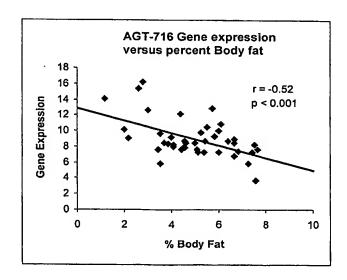


Figure 27:

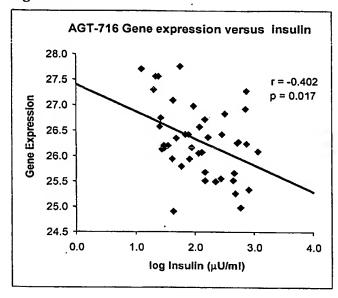
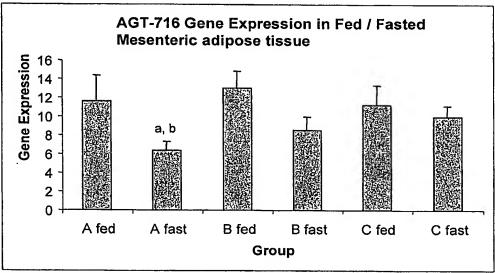


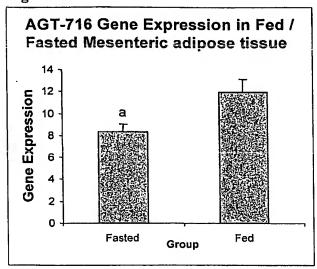
Figure 28:



a:Gene expression (mesenteric adipose tissue) significantly lower in A fasted animals when compared to A fed (p=0.041).

b:Gene expression (mesenteric adipose tissue) significantly lower in A fasted animals when compared to C fasted (p=0.033) animals.

Figure 29:



a:Gene expression (mesenteric adipose tissue) significantly lower in fasted animals when compared to fed animals (p=0.014).

Figure 30:

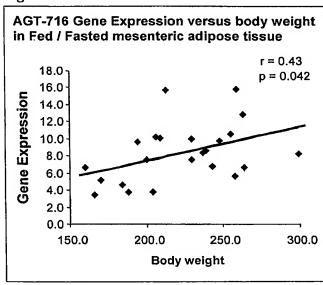
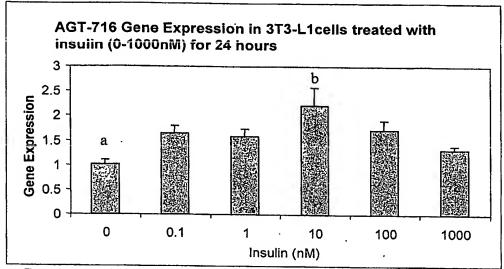


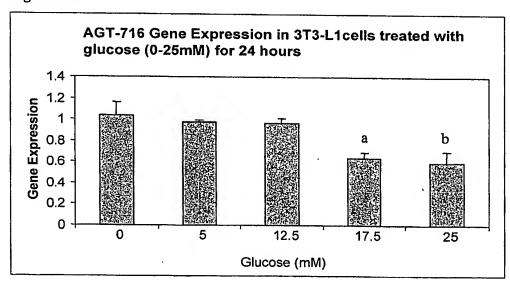
Figure 31:



a: Gene expression (3T3-L1 cells) significantly lower in 0nM insulin treated cells when compared to 0.1nM (p=0.028), 1nM (p=0.046), 10nM (p<0.001) and 100nM (p=0.017) insulin treated groups.

b:Gene expression (3T3-L1 cells) significantly higher in 10nM insulin treated cells when compared to 0nM (p<0.001), 0.1nm (p=0.046), 1nM (p=0.028), 1000nM and (p=0.003) insulin treated groups.

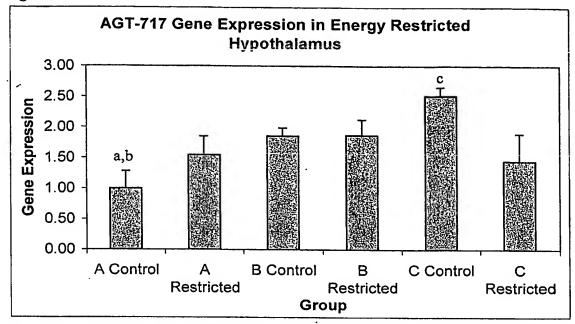
Figure 32:



a: Gene expression (3T3-L1 cells) significantly lower in 17.5mM glucose treated cells when compared to 0mM (p=0.011), 5mM (p=0.01) and 12.5mM (p=0.011) glucose treated groups.

b:Gene expression (3T3-L1 cells) significantly lower in 25mM glucose treated cells when compared to 0mM (p=0.025) and 5mM (p=0.05) glucose treated groups.

Figure 33:



a,b: Gene expression was significantly lower in A control animals compared to B control (p=0.027) and C control (p<0.001) animals

c: p=0.009, gene expression was significantly higher in C control compared to C restricted animals.

Figure 34:

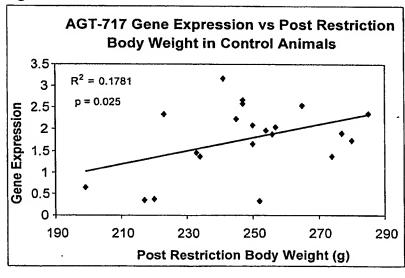


Figure 35:

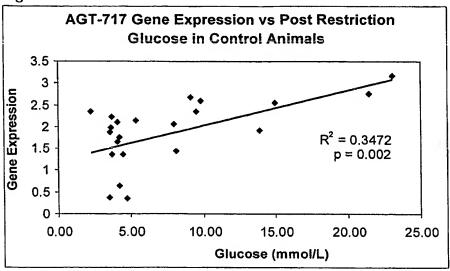


Figure 36:

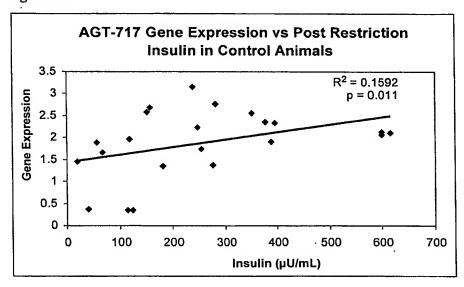


Figure 37:

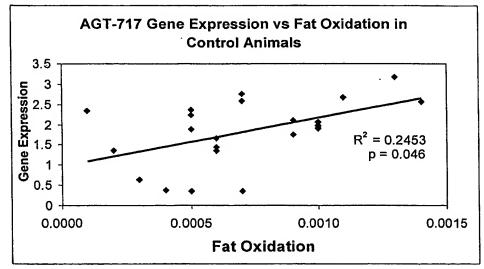
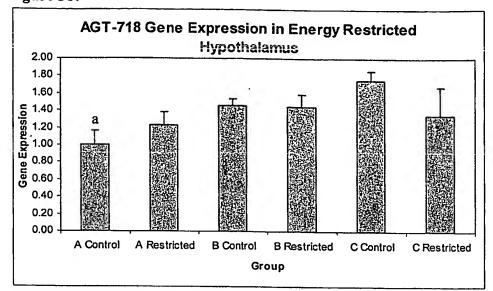


Figure 38:



a: p=0.023, A control < C control

Figure 39:

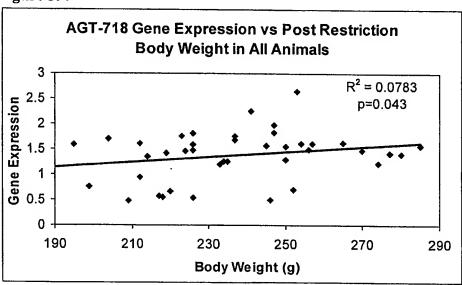


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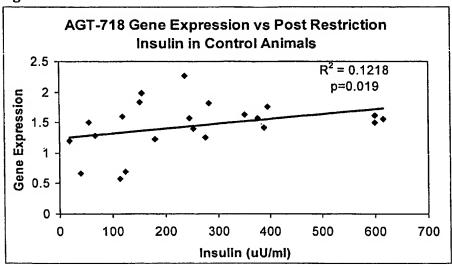


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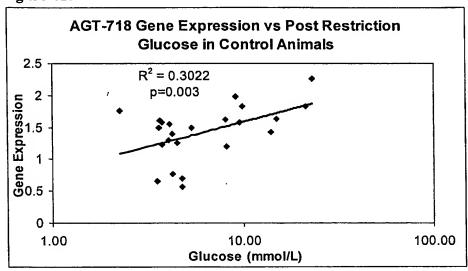


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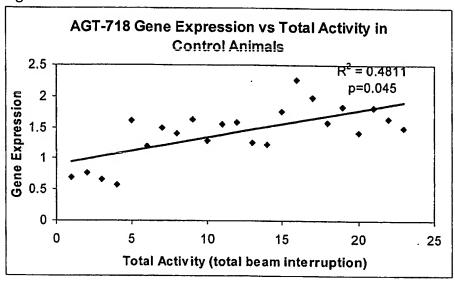


Figure 43:

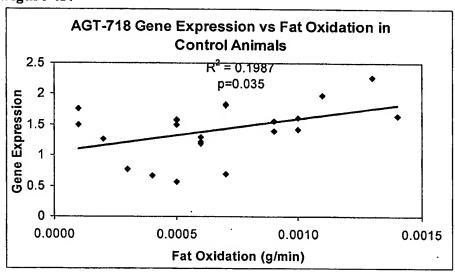


Figure 44:

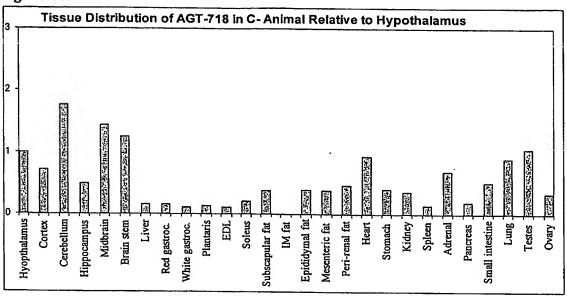
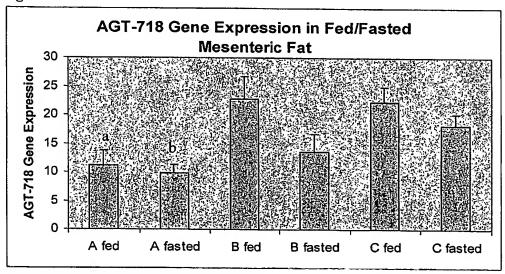


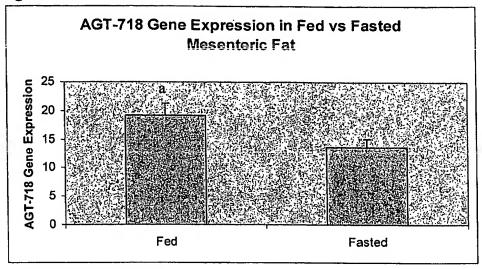
Figure 45:



a: A fed < B fed, C fed (p=0.005, 0.007)

b: A fasted < C fasted (p=0.027)

Figure 46:



a: Fed>Fasted (p=0.038)

Figure 47:

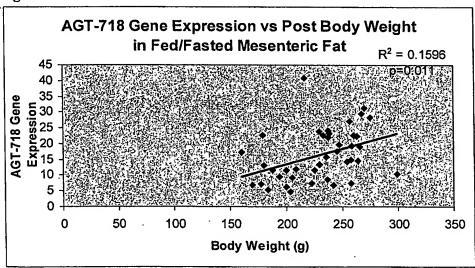


Figure 48:

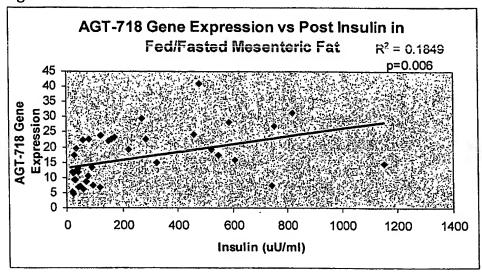


Figure 49:

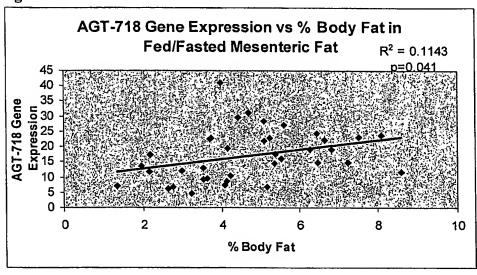
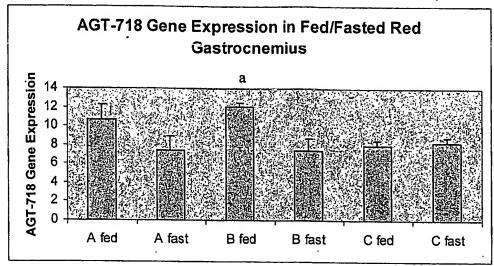
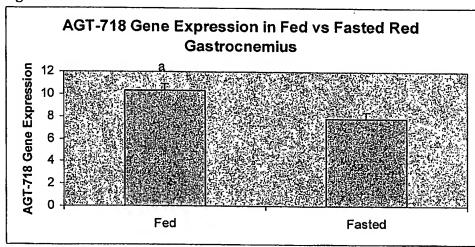


Figure 50:



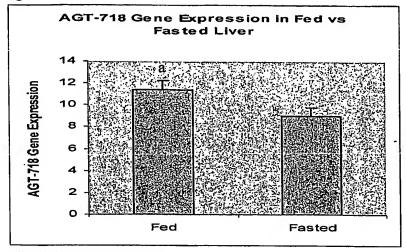
a: B fed>C fed (p=0.001)

Figure 41:



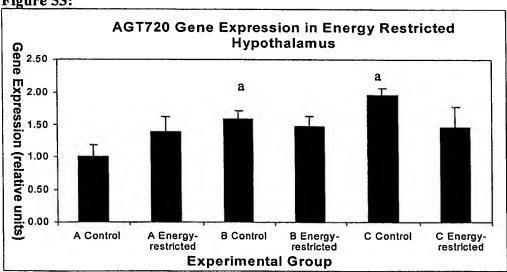
a: Fed> Fasted (p=0.007)

Figure 52:



a: Fed> Fasted (p=0.047)

Figure 53:



a:p<0.05, significant increase in the hypothalamus of B and C control groups, when compared with the A control group.

Figure 54:

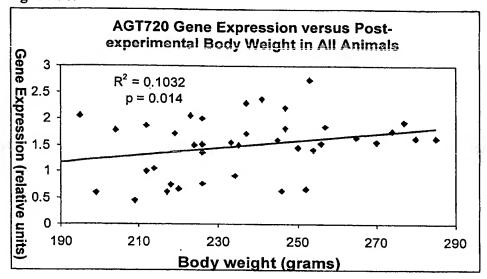


Figure 55:

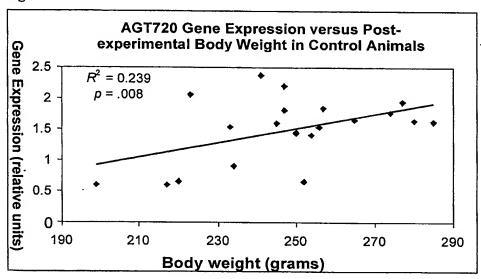


Figure 56:

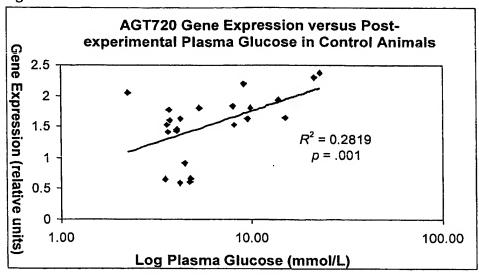


Figure 57:

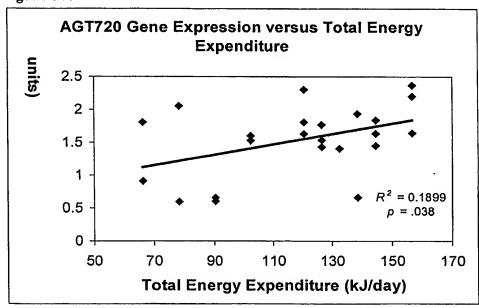
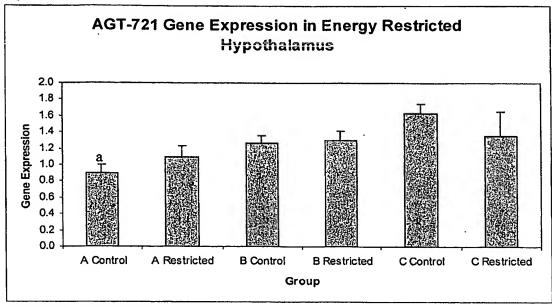


Figure 58:



a: p<0.001 vs C control

Figure 59:

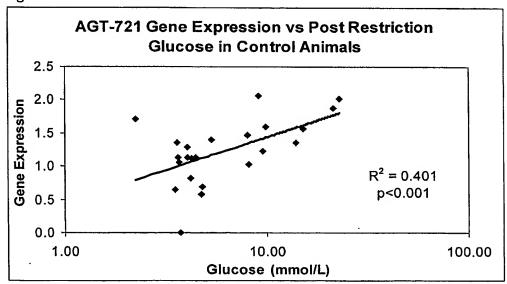


Figure 60:

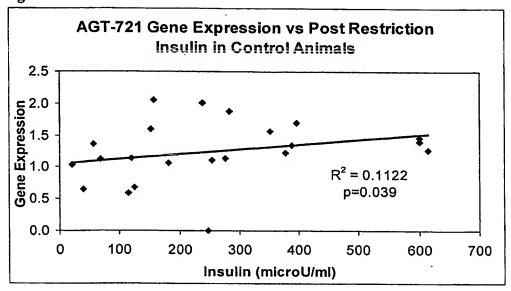
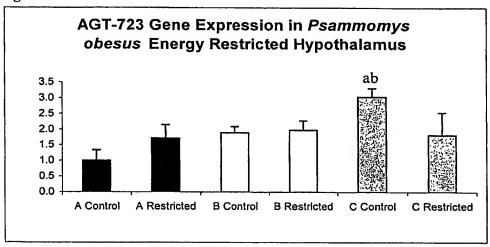


Figure 61:



a: AGT-723 gene expression significantly higher (p=0.005) in C Control animals when compared to A Control.

b: AGT-723 gene expression significantly higher (p=0.042) in C Control animals when compared to B Control.

Figure 62:

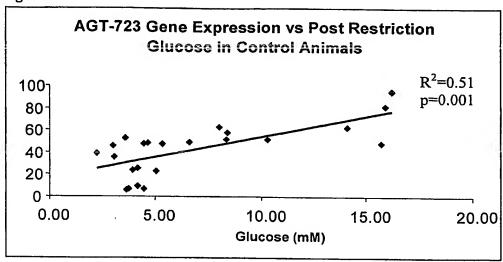


Figure 63:

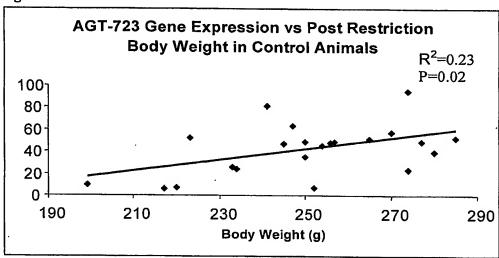


Figure 64:

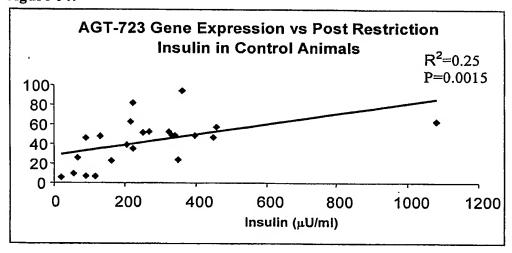


Figure 65:

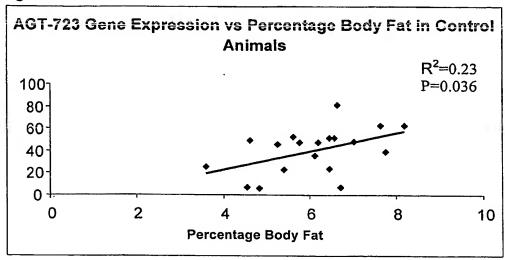


Figure 66:

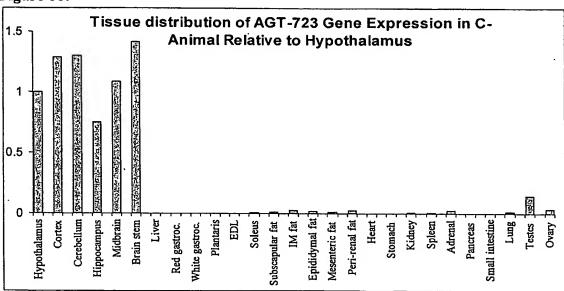
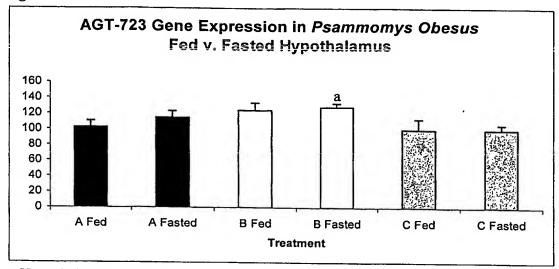


Figure 67:



a: Hypothalamic *Psammomys obesus* AGT-723 gene expression (fed/fasted study) significantly higher (p=0.032) in B Fasted animals when compared to C Fasted animals.

Figure 68:

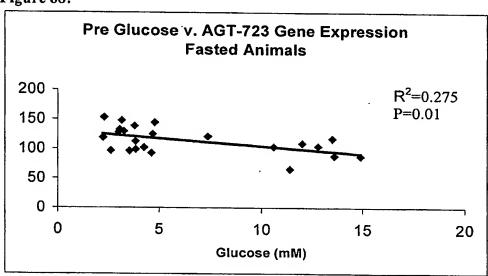
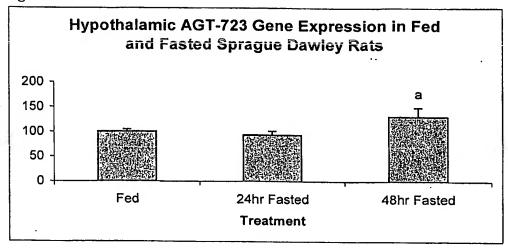
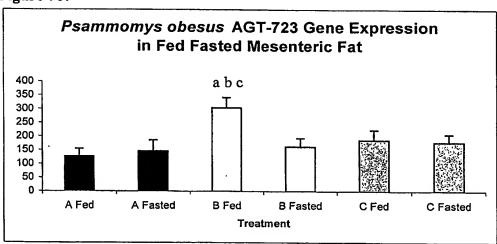


Figure 69:



a: Sprague Dawley rat hypothalamic AGT-723 gene expression (fed/fasted study) is significantly higher (p=0.043) in 48hr fasted animals when compared to 24hr fasted animals

Figure 70:



a: Mesenteric fat *Psammomys obesus* AGT-723 gene expression (fed/fasted study) significantly higher (p=0.001) in B Fed animals when compared to A Fed animals. b: Mesenteric fat *Psammomys obesus* AGT-723 gene expression (fed/fasted study) significantly higher (p=0.005) in B Fed animals when compared to B Fasted animals. c: Mesenteric fat *Psammomys obesus* AGT-723 gene expression (fed/fasted study) significantly higher (p=0.022) in B Fed animals when compared to C Fed animals.

Figure 71:

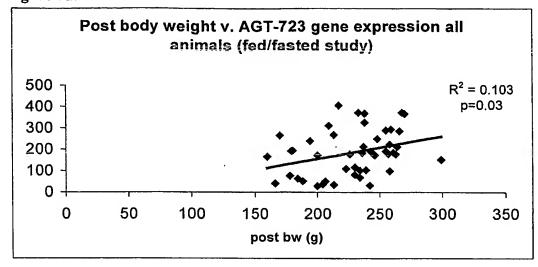


Figure 72:

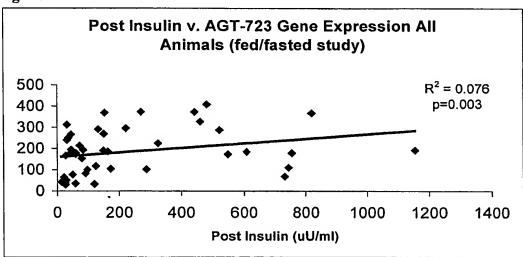
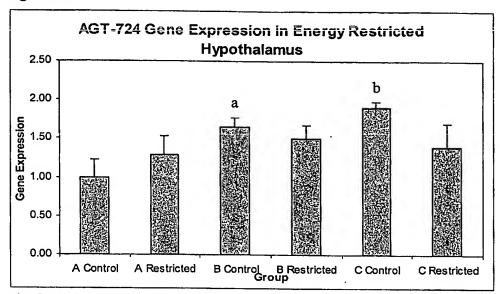


Figure 73:



a,b: Gene expression was significantly lower in A controls when compared to B controls (p=0.033) and C controls (p=0.004)

Figure 74:

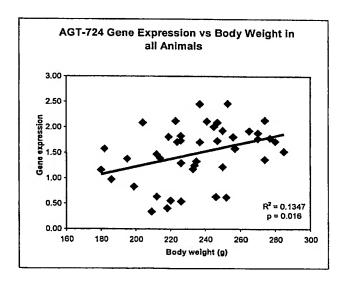


Figure 75:

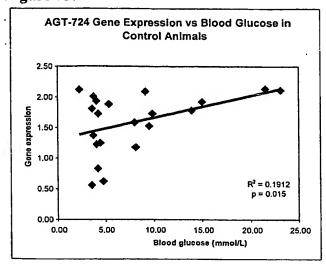
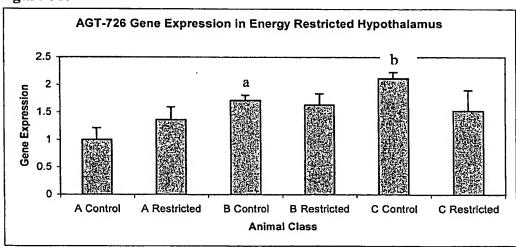


Figure 76:



a:p=0.024 compared to A control b:p=0.001 compared to A control

Figure 77:

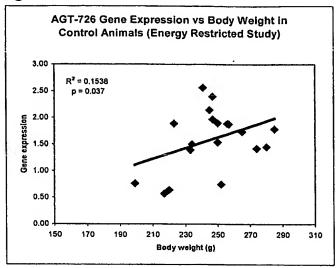


Figure 78:

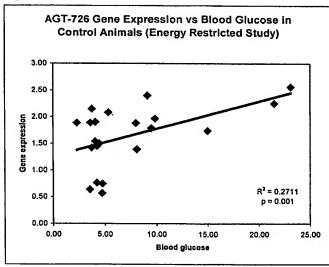


Figure 79:

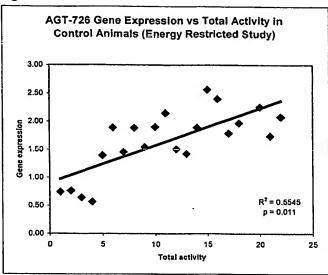


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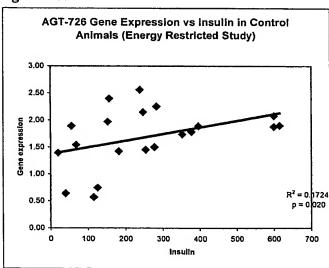


Figure 81:

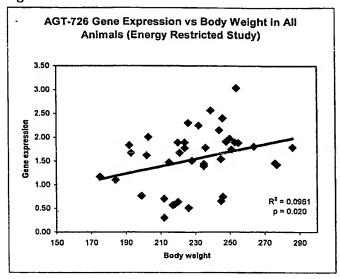


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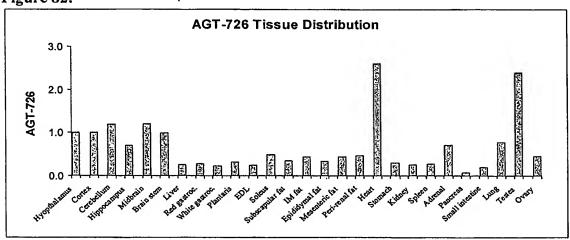
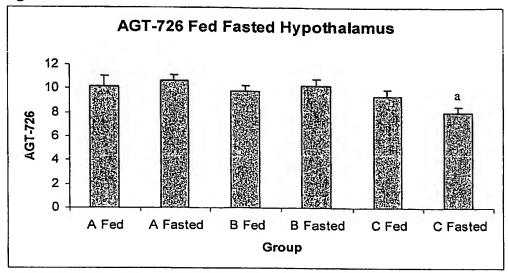
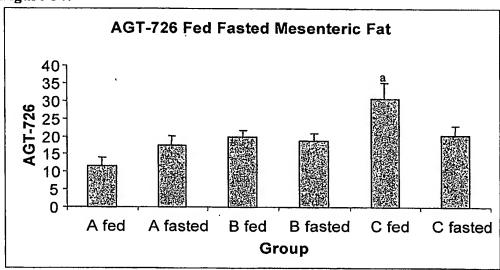


Figure 83:



a: p=0.003 compared to A fasted; p=0.013 compared to B fasted.

Figure 84:



a:p<0.013 compared to A fed, B fed and C fasted animals.

Figure 85:

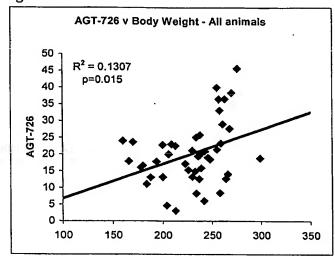


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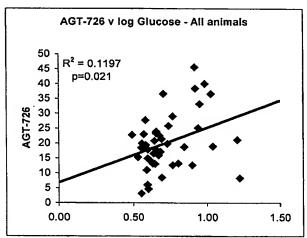


Figure 87:

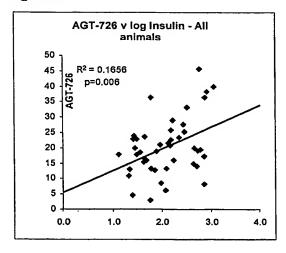
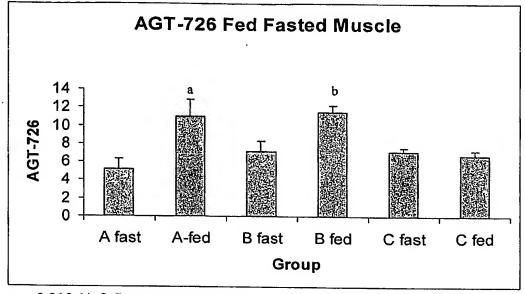


Figure 88:



a: p=0.018 (A fed) compared to C fed. b: p=0.002 (B fed) compared to C fed.

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Figure 89:

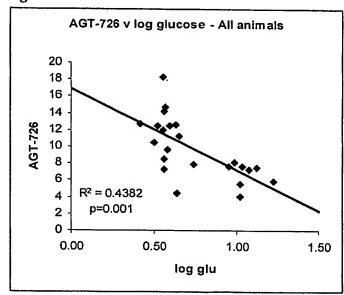
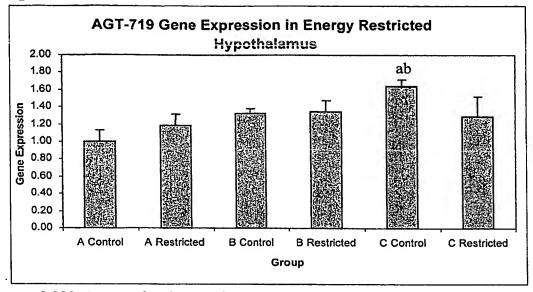


Figure 90:



a: p=0.022, A control < C control b: p=0.040, B control < C control

Figure 91:

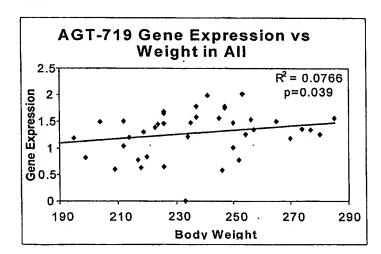


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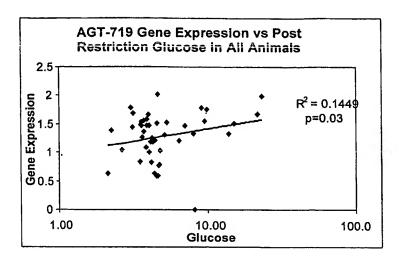


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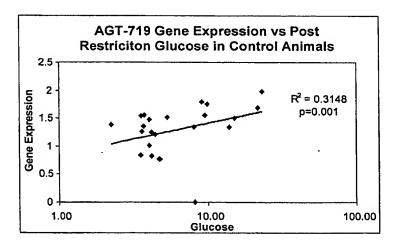


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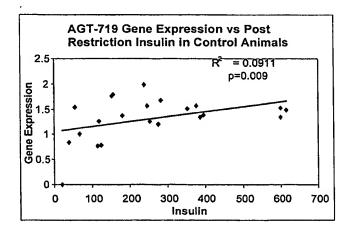


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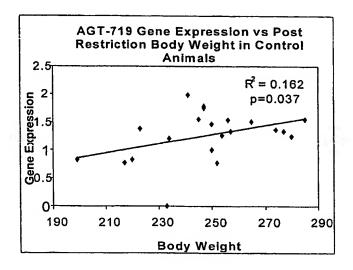


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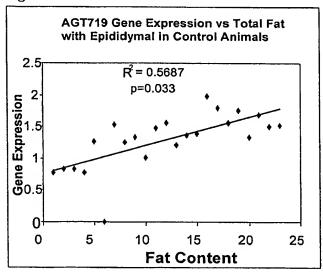


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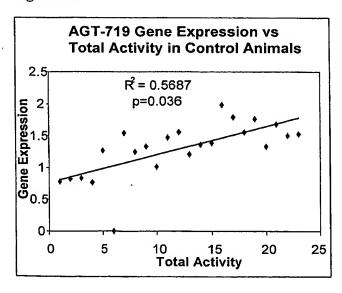
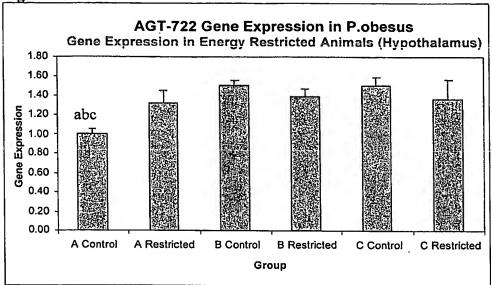
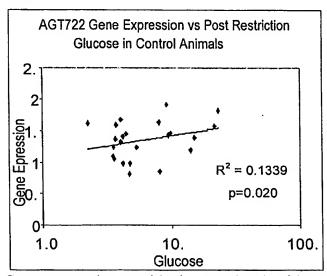


Figure 98:



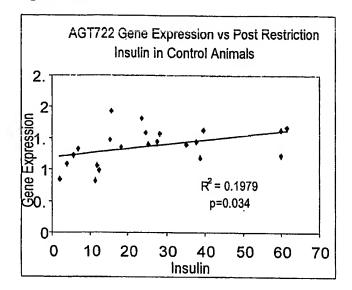
- a: Gene expression significantly lower in A control animals compared to B control animals (p=0.002).
- b: Gene expression significantly lower in A control animals compared to C control animals (p=0.002).
- c: Gene expression significantly lower in A control animals compared to A restricted animals (p=0.038).

Figure 99:



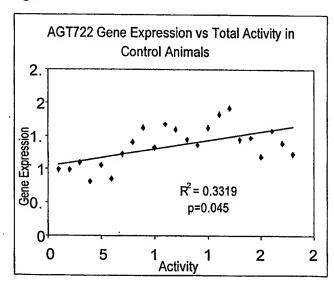
Gene expression positively correlated with post restriction glucose (p=0.020) in control animals.

Figure 100:



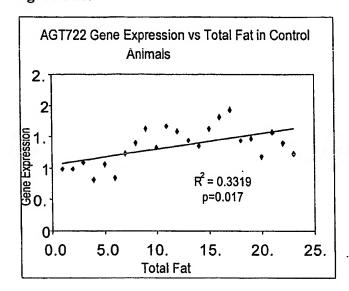
Gene expression positively correlated with post restriction insulin (p=0.034) in control animals.

Figure 101:



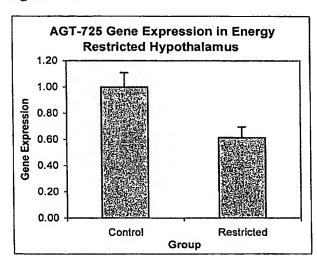
Gene expression positively correlated with total activity (p=0.045) in control animals.

Figure 102:



Gene expression positively correlated with total fat (p=0.017) in control animals.

Figure 103:



## Figure 104:

a: AGT-725 gene expression significantly lower in A controls when compared to C controls (p = 0.012)

b: gene expression significantly lower in C controls when compared to C energy restricted(p=0.012)

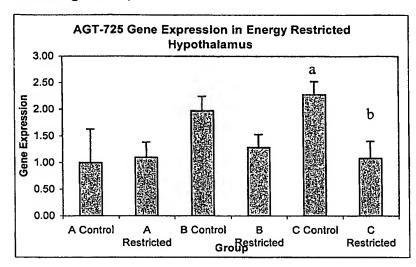


Figure 105:

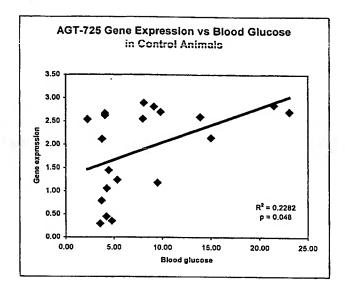
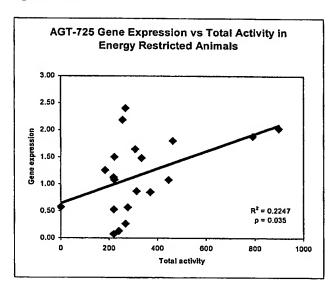


Figure 106:



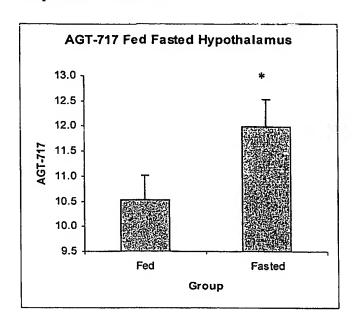
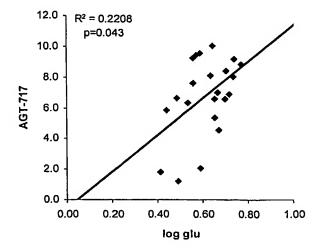


Figure 108: Linear association between AGT-717 and glucose in red gastrocnemius muscle of P. obesus fasted for 24 hr.



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Figure 109: AGT-717 gene expression in mesenteric fat of fed and 24 hr fasted P. obesus; \*p<0.034 compared to group A fed.

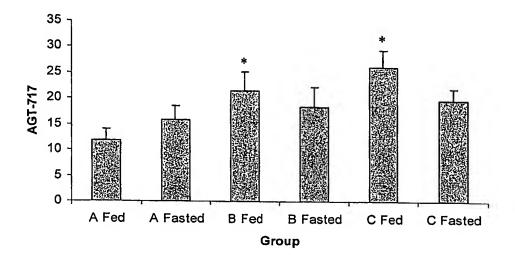
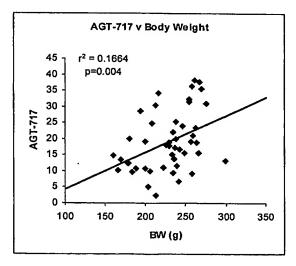


Figure 110: Linear associations of AGT-717 gene expression in mesenteric fat with body weight and insulin values in all animals.



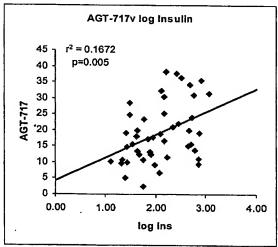


Figure 111: AGT-717 gene expression in 3T3 cells treated with insulin for 24 hrs, \*p<0.01 compared to 0 nM, 0.1 nM and 1 nM groups.

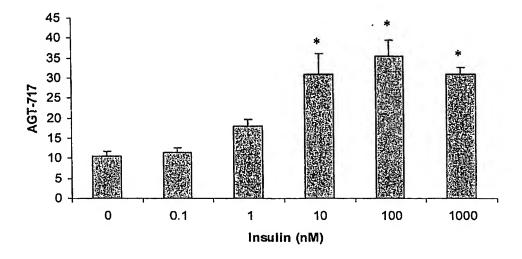
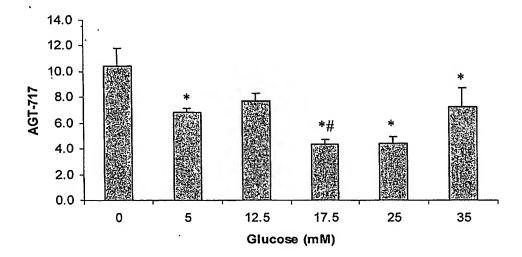


Figure 112: AGT-717 gene expression in 3T3 cells treated with glucose for 24 hr, \*p<0.05 compared to 0 mM; #p=0.024 compared to 12.5 mM.



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